

Tucson Festival of Books:

Ventana Science Pavilion

Presented by the BIO5 Institute

With Support from Research Corp

Ventana Science Stage

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Saturday	March 13
10:00 am	Chemistry Magic Show
11:30am	“Can Science Help Save Endangered Species?” panel discussion led by Dr. Kevin Bonine, with Keiran Suckling of the Center for Biological Diversity, scientist Aletris Neils, and author Cory J Meacham, author of “How the Tiger Lost Its Stripes: An Exploration into the Endangerment of a Species.”
1:00pm	Meet Dr. Gary Small, author of “The Memory Bible: An Innovative Strategy for Keeping Your Brain Young”
2:30pm	“The Best of WaveLengths: Tucson’s Emmy-Award Winning Science Show” with host Dr. Vicki Chandler & producer Pam White
4:00pm	Science Writing Workshop, moderated by Jim Cornell, President, International Science Writers Association (see panelists below)

Sunday	March 14
10:00 am	Physics Fun with the Physics Factory
11:30am	Meet “Katie of the Sonoran Desert” author Kate Jackson
1:00pm	Fernando Martinez, MD presents “The Mystery of Disease”
2:30pm	Dr. Robert Glennon “Unquenchable: America’s Water Crisis and What to Do About It”
4:00pm	Dr. Chris Impey “How It Ends: From You to the Universe”

Ventana Science Zone & outdoor demonstration area

[Education outreach groups present activities]

10am-5pm Saturday & Sunday

See Your DNA!

Presented by BIO5 Institute and the BIOTECH Project

DNA is what makes you YOU! Learn about heredity and the structure of the ‘molecule of life’ while extracting DNA from your own cheek cells! Guests will make-and-take a necklace with their own DNA.

DNA Forensics: The Case of the Teenage Romance Riddle

Presented by BIO5 Institute and the Jr. BIOTECH Project

Was our leading man at the movies with another girl or was he just out with his cousin, as he claims? Use DNA gel electrophoresis, as well as chromatography, fingerprints and hair analysis, to solve this mystery.

Brain Works

Presented by the UA School of Mind, Brain and Behavior

Kick off Brain Awareness Week (March 15-21) and put your brain to the test with a collection of activities that explore neuroscience and the brain. Visit the ‘brain zoo,’ explore the power of the human brain, and participate in experiments that illustrate how your brain sometimes plays tricks on you.

Get WET!

Presented by Arizona Project WET

Go on an ‘Incredible Journey’ and make a bracelet that tells the story of your life as a water molecule. Explore the movement of water above and below the Earth’s surface and learn how you can help protect Arizona’s watersheds.

Arizona Research Labs: Biotech

Everyone’s DNA tells a story! Learn how the DNA Shoah Project combines genetics with history and social science to reunite families torn apart by the Holocaust. Explore the field of genetic genealogy.

Insect Discovery

Presented by Insect Discovery

Learn about biodiversity and adaptations as you explore the fascinating world of insects! Get up close and personal with live insects and dig into the world of decomposers.

Ick! Ouch!

Is it candy or is it medicine? Do you know what to do when snakes, scorpions, and spiders attack? The Arizona Poison and Drug Information Center has helped Arizonans with all kinds of poisonings, 24 hours a day, 7 days a week, 365 days a year, for 50 years. Explore “look alike” demonstrations and get up close and personal with a LIVE venomous creature!

UA Science

Presented by UA College of Science

From the inner workings of our brains to the outreach reaches of our galaxies, the UA College of Science conducts programs spanning the biological, mathematical and physical sciences. New discoveries are shared with the community at several local venues, including Biosphere 2, Flandrau Science Center, and the Mount Lemmon Sky Center.

Picture Yourself in Science!

Presented by BIO5

Ever wonder what it would be like to be a scientist? Try on a lab coat and safety glasses and have your picture taken in the "BIO5 Traveling Laboratory" when you support science education programs that touch 40,000 Arizona K-12 students annually.

Special Appearances

Saturday: 12-4pm

Lively Lizards and Superb Snakes

Presented by Tucson Herpetological Society

In the Science Discovery Center

Come learn about the incredible reptiles that share our Sonora Desert home. Experts will introduce you to fascinating live specimens and talk about what it's like to study and observe these creatures in their natural environment. Copies of "Lizards of the American Southwest: A Photographic Field Guide" specially signed by editor Lawrence Jones will be available for purchase.

Saturday: 11:30am and 1:00pm

Nucleation Station

With thanks to Safeway and Fry's

Join UA chemists as they mix up a big scientific explosion of fun! Learn about the principles of nucleation using common ingredients from the grocery store.

Saturday: 4:00pm

Science Stories with Jordan Hill

For kids of all ages! Professional storyteller Jordan Hill opens windows into science with stories that delight and charm.

Sunday: 10am, 11:30am, 1pm, 2:30pm, 4pm

The Great Galileoscope Giveaway

(Presented by NOAO, with many thanks to our sponsors!)

Complete your passport to learning in the Science Pavilion and enter to win your very own Galileoscope! The Galileoscope is a high-quality, low-cost telescope designed in part by UA/NOAO astronomers. Use your Galileoscope to explore how optics work and see celestial wonders first glimpsed by Galileo 400 years ago! A total of 10 Galileoscopes will be given away to children 17 and under.

Ventana Science Stage

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Saturday, March 13

Chemistry Magic

10am

Presented by the Biochemistry² Club

Kick off this exciting weekend of science fun with a live show designed to make science exciting for people of all ages. With a wide array of explosions, fire, fun with liquid nitrogen, and creative hands-on activities, these talented UA undergraduates share their passion for science in a safe and entertaining environment.

Can Science Help Save Endangered Species?

11:30am

Moderated by Dr. Kevin Bonine

If you love animals and care about the fight to save endangered species, you'll want to hear this conversation led by Dr. Bonine, a leading UA researcher in conservation biology. Find out what scientists, journalists, and activists are doing to help protect wildlife. Joining Dr. Bonine will be: field researcher Aletris Neils who studies felines in both Southern Arizona and Africa; Kieran Suckling, executive director of the Center for Biological Diversity; and Cory J Meacham, author of "How the Tiger Lost Its Stripes: An Exploration into the Endangerment of a Species."

Meet Dr. Gary Small, NY Times best-selling author of "The Memory Bible"

1pm

Presented by Dr. Gary Small

Dr. Gary Small is a professor of psychiatry at the UCLA Semel Institute and directs the Memory and Aging Research Center and the UCLA Center on Aging. He is one of the world's leading experts on brain science and has published numerous books and articles. Scientific American magazine named him one of the world's top innovators in science and technology, and he frequently appears on The Today Show, Good Morning America, 20/20 and CNN. Dr. Small has invented the first brain scan that allows doctors to see the physical evidence of brain aging and Alzheimer's disease in living people.

WaveLengths

2:30pm

Presented by host Vicki Chandler, PhD, and producer Pam White

This Emmy-award winning television show explores the spectacular research conducted by scientists of the University of Arizona. From the depths of the Colorado River to the outer reaches of our galaxy, from molecules to ecosystems, WaveLengths is your passport to the latest in exciting discoveries happening right here in Tucson. See highlights from the program and meet the producer Pam White of Arizona Public Media and host Dr. Vicki Chandler.

Saturday, con't.

Science Writers Workshop

4pm

Moderated by James Cornell, President, International Science Writers Association

Whether you're a writer interested in science, or a scientist interested in writing, this is the workshop for you! Experienced science writers share tips and insights into this fascinating genre. Hear Deborah Blum on finding general audiences by seeking the off-beat and unexplored; Becky Ham on making science reading fun for kids; Doug Isbell discussing how special interest topics can fit into special marketing niches; and Dennis Meredith talking to scientists about how to make your research topical, popular, interesting and marketable; and Stolte on making the most of UA science communication. This lively discussion will be led by moderator James Cornell.

Deborah Blum is the Pulitzer Prize-winning journalist and the author of the just issued "The Poisoner's Handbook: Murder and the Birth of Forensic Medicine in Jazz Age New York"(Oxford University Press).

Becky Ham is the author of "The Periodic Table (Essential Chemistry)" and a successful freelance science and health writer located in Phoenix.

Doug Isbell is currently the Manager of Communications and Media Relations at Lawrence Berkeley National Laboratory. In the past, he has been instrumental in the International Year of Astronomy 2009, Associate Director for Public Affairs the National Optical Astronomy Observatory (NOAO), and Public Affairs Officer at NASA Headquarters.

Dennis Meredith's career as a science communicator has included service at some of the country's leading research universities, including MIT, Caltech, Cornell, Duke and the University of Wisconsin. He has worked with science journalists at all the nation's major newspapers, magazines, and radio and TV networks and has written well over a thousand news releases and magazine articles on science and engineering over his career. He was a creator and developer of [EurekAlert!](#), working with AAAS to establish this international research news service, which now links more than 4,500 journalists to news from 800 subscribing research institutions.

Daniel Stolte serves as science writer for the University of Arizona's communications office, which produces UANews, Lo Que Pasa, and UANow, an e-mail summary of the top UA news sent every weekday morning to more than 100,000 subscribers around the world.

James Cornell is President of the International Science Writers Association (ISWA), which promotes science journalism worldwide. For many years he was Publications Director for the Harvard-Smithsonian Center for Astrophysics, responsible for all technical and popular information. The author or editor of more than a dozen popular science books, Cornell now publishes an on-line newsletter and serves as a consultant to various foundations.

Sunday, March 14

Physics Fun with the Physics Factory

10am

Presented by the Physics Factory

Come see (and hear!) physics as you never have before! Physics is an exciting process of discovery and invention. Join in on the fun as the Physics Factory presents dazzling displays and eye-popping demonstrations that demonstrate a variety of physics concepts.

Fernando Martinez, MD “The Mystery of Disease”

11:30am

Dr. Martinez has studied asthma for more than 25 years, and offers unique insight into this battle for the health of Arizona’s children. His experience as both a compassionate clinician and determined researcher is the basis for this thought-provoking discussion.

Meet “Katie of the Sonoran Desert” author Dr. Kate Jackson

1pm

Moderated by

Dr. Jackson tells the true story of Katie, a meter-long western diamondback rattlesnake, and her adventures as she struggles to make a life for herself in the harsh Sonoran Desert.

Meet Robert Glennon, author of “Unquenchable: America’s Water Crisis and What to Do About It”

2:30pm

Moderated by

Dr. Robert Glennon will share thoughts about the pressing issue of water based on his latest book: “Unquenchable: America’s Water Crisis and What to Do About It.”

Meet Chris Impey, Author of “How It Ends: From You to the Universe”

4pm

Moderated by

Dr. Chris Impey, a highly-regarded lecturer and speaker, wraps up the science experience for festival audiences with insights from his forthcoming book about his “big crunch” theory on the end of the Universe.